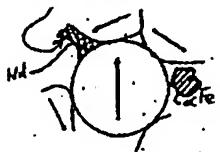


Figure 1

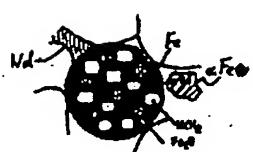
Nd-rich phase Phase transition



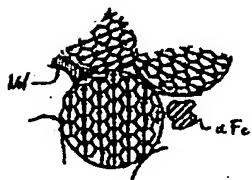
(1) Grain of the parent alloy:

Arrows indicate the crystallographic orientation of the c-axis

Reverse phase transition

(2) Mixture of RH<sub>2</sub>, Fe and Fe<sub>2</sub>B:

Arrows denote the crystallographic orientation of the c-axis of the Fe<sub>2</sub>B phase (orientation of Fe<sub>2</sub>B and parent alloy show a good correspondence)



(3) Recombinant microstructure:

Arrows indicate crystallographic orientation of the c-axis of R<sub>2</sub>Fe<sub>14</sub>BH<sub>x</sub> phase (orientation of the R<sub>2</sub>Fe<sub>14</sub>BH<sub>x</sub> phases matches)

Figure 2 Crystallographic orientation (state of the art)

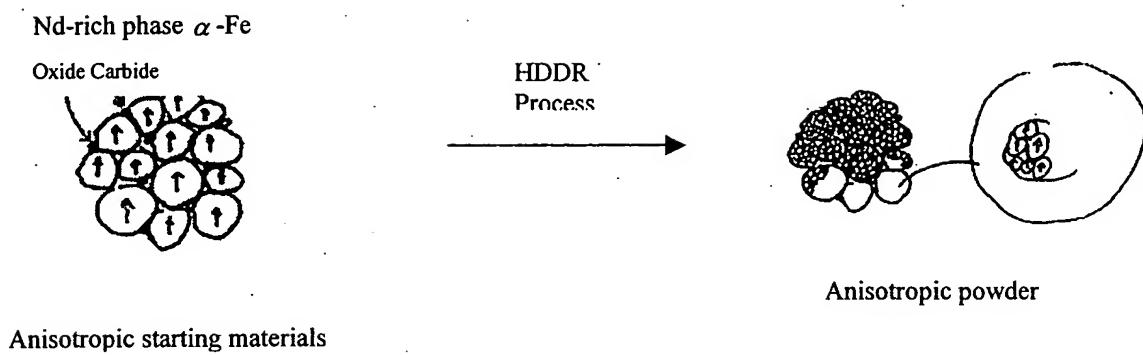


Figure 3